ALLSTAR w/ENCODER CONTROL PANEL



Rapid Roll 355 RapidRoll 3000

975-A OLD NORCROSS ROAD
LAWRENCEVILLE, GA 30045
(770) 338-5000 TEL
(770) 338-5034 FAX
(877) 925-2468 TOLL FREE
Version Nov. 2006

Table of Contents

NOTE

The attached electrical diagrams with these instructions are for reference purposes only and may show wiring for options not supplied with the door. Please refer to the actual schematics that are supplied with the control panel.

WARNING

DO NOT INSTALL, OPERATE, OR SERVICE THIS PRODUCT UNLESS YOU HAVE READAND UNDERSTAND THE SAFETY PRACTICES, WARNINGS, INSTALLATION, AND MAINTENANCE INSTRUCTIONS CONTAINED IN THIS MANUAL.

STATEMENT OF WARRANTY

ONE YEAR WARRANTY ON DOOR PANEL, MECHANICAL & ELECTRICAL COMPONENTS

Albany Door Systems warrants to the original owner of the door that the door panel fabric, mechanical and electrical components will be free of defects in material and workmanship for a period of **twelve (12) months** from the date of shipment.

Only defects brought to the attention of **Albany Door Systems** during the warranty period will be covered by his warranty.

Albany Door Systems will replace any component parts, which are found to be defective upon inspection by an **Albany Door Systems** representative.

This warranty does not cover damage caused by collision or other abuse of the product. Adjustments made to the Control Panel or to the mechanical operation of the door without the authorization of **Albany Door Systems** will void this warranty.

The replacement provisions shall be the limit of **Albany Door Systems** responsibility under this warranty **Albany Door Systems** shall not be responsible for any other losses or damages due to the operation of any door or parts covered by this warranty.

No other oral or written representations made by **Albany Door Systems** or its agents are a part of this warranty unless specifically set forth in writing by an authorized **Albany Door Systems** official.

THE ABOVE SET FORTH WARRANTY IS SELLER'S SOLE WARRANTY. SELLER MAKES NO OTHER WARRANTY OF ANY KIND WHATSOEVER, EXPRESSED OR IMPLIED; AND ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE WHICH EXCEED THE AFORESTATED OBLIGATION ARE HEREBY DISCLAIMED BY SELLER AND EXCLUDED FROM THIS AGREEMENT. USW-230.99

SAFETY PRACTICES

WARNING

THOROUGHLY READ THESE SAFETY PRACTICES PRIOR TO INSTALLING, OPERATING, OR SERVICING A HIGH-SPEED, RAPID ROLL® DOOR. FAILURE TO FOLLOW THESE SAFETY PRACTICES MAY RESULT IN PROPERTY DAMAGE, PERSONNEL BODILY INJURY, OR DEATH.

1. Do not operate a Rapid Roll® Door while you are under the influence of drugs or alcohol.
2. Do not use the door if any parts appear to be broken or damaged.
3. Stay clear of the door while it is operating.
4. Keep hands and feet clear of the door at all times.
5. Do not drive through the door opening unless door is completely open.
6. Maintain a clear door opening at all times. Keep the door opening free of any obstructions.
7. Remove power at the fused disconnect during all electrical or mechanical service. OSHA requires a disconnect to be properly tagged and locked out during all maintenance or service of equipment.
8. All electrical troubleshooting or service must be performed by a qualified electrician or service person and must meet all applicable local, state, federal, and other governing agency codes.
9. ***USE EXTREME CAUTION*** when it is necessary to service the control panel while it is energized.

WARNING

CONTROL PANEL CONTAINS HIGH VOLTAGE. QUALIFIED ELECTRICAL PERSONNEL SHOULD PERFORM THE FOLLOWING PROCEDURES ONLY. WIRING MUST MEET ALL LOCAL, STATE, FEDERAL, INTERNATIONAL, OR OTHER GOVERNMENT AGENCY CODES. FAILURE TO DO COULD RESULT IN SERIOUS INJURY OR DEATH.

If you have any questions, please contact your local Albany service provider for assistance. Otherwise contact Albany Door Systems 1-877-925-2468 for information on your local distributor.

INSTALLATION

The following instructions are guidelines for electrically installing a generic Rapid® Roll Door with and All-Star Drive System. Actual wiring may be different based on what options; special instructions, special components, etc. were ordered with the door. Consult the electrical schematics that are supplied with the door. These should be located inside the door's control panel.

WARNING

CONTROL PANEL CONTAINS HIGH VOLTAGE. QUALIFIED ELECTRICAL PERSONNEL SHOULD PERFORM THE FOLLOWING PROCEDURES ONLY. WHENEVER REMOVING POWER FROM THE CONTROL PANEL, WAIT AT LEAST 1 MINUTE PRIOR TO SERVICING TO ALLOW CAPACITORS INSIDE THE FREQUENCY INVERTER TO DRAIN. WIRING MUST MEET ALL LOCAL, STATE, FEDERAL, INTERNATIONAL, OR OTHER GOVERNMENT AGENCY CODES. FAILURE TO DO SO COULD RESULT IN SERIOUS INJURY OR DEATH.

NOTE

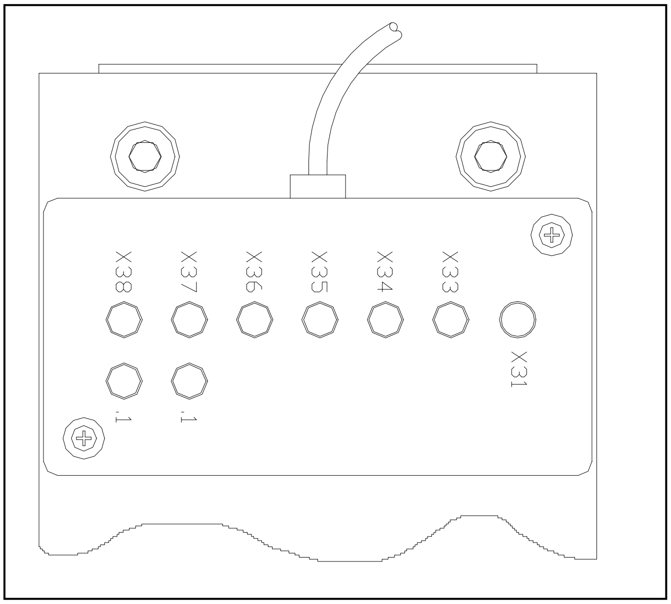
TO AID THE WIRING AND SERVICE OF ALL ELECTRICAL CIRCUITS, TAG OR LABEL ALL WIRE ENDS DURING THE FOLLOWING ELECTRICAL INSTALLATION. HIGH VOLTAGE POWER LEADS TO THE DRIVE UNIT MUST BE RUN IN A SEPARATE CONDUIT FROM THE LOW VOLTAGE CONTROL WIRES.

1. Ensure the mechanical installation of the door is complete.
2. Mount the control panel at a serviceable height on the drive side of the door.
3. Run two electrical conduits from the control panel to the drive unit. Install a suitable junction box at the drive unit for the motor leads. **RUN ENCODER WIRE IN A SEPARATE CONDUIT!** Install a separate suitable junction box for the Encoder wiring.
4. Run conduits from the control panel to the side frame(s) to accommodate the door jamb photocell(s) and the contactless safety edge (if supplied).
5. Install the pressure switch onto the bottom beam. Run the retractile cord to the control panel. Secure the retractile cable (if equipped) to the drive side side frame cover using supplied cable clamp.
6. Install all the actuators and wire according to the electrical wiring diagrams.
7. Install a non-fused disconnect beside the control panel.

CAUTION

VERIFY ALL FIELD WIRING TO ENSURE TERMINAL CONNECTIONS ARE TIGHT AND CORRECT. A FUSED DISCONNECT IS REQUIRED FOR EACH ALBANY DOOR AS A MEANS OF DISCONNECTING INCOMING POWER FROM THE CONTROL PANEL. THIS DISCONNECT IS NORMALLY SUPPLIED BY OTHERS.

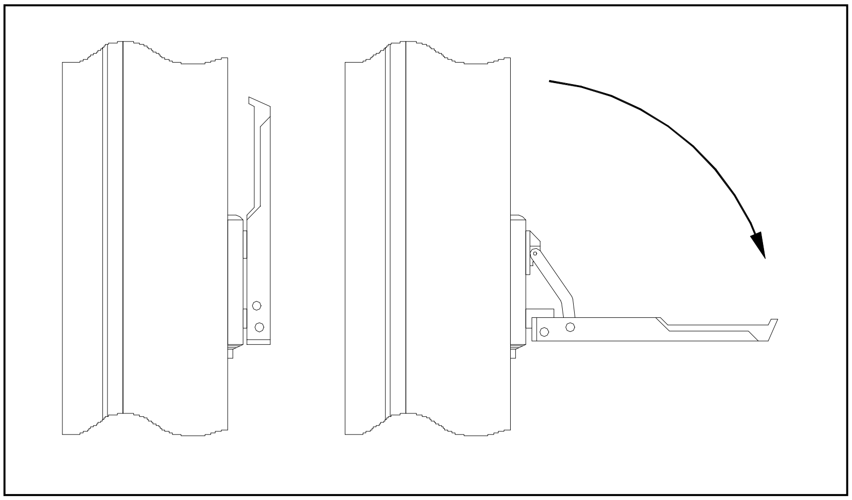
Interconnection Wiring



Label	What	Plug	Location
X31	THERMAL SWITCH	3 WIRE	BLK. WIRE MOTOR
X33	TOP OPEN PROX.	3 WIRE	BLK. WIRE SIDE FRAME
X35	PHOTOCELL RECEIVER	3 WIRE	LEFT SIDE FRAME
X36	PHOTOCELL TRANSMITTER	3 WIRE	RIGHT SIDE FRAME
X37.1	CSE RECIEVER	4 WIRE	RIGHT SIDE FRAME
X38.1	CSE TRANSMITTER	4 WIRE	LEFT SIDE FRAME

ALL-STAR™ DRIVE SYSTEM WITH ENCODER SETUP

1. Located on the side frame, pull down on the brake disengagement lever to release the brake. While the brake is released, manually move the door to the halfway point by pulling the door down. Allow brake to re-engage.



CAUTION

WHEN MANUALLY MOVING THE DOOR, GRAB HOLD OF THE ALUMINUM OF THE BOTTOMBEAM. DO NOT PULL ON THE YELLOW, AS IT MAY TEAR.

2. Apply power to the control panel. Check for correct line voltage at FU1, FU2, and FU3 with a voltmeter. (**Using a 460VAC to a 230 VAC inverter will result in damage to the inverter!**) Ensure the **POWER** LED's on both the PLC and frequency inverter are lit. Also ensure that the **RUN** LED is lit on the PLC.

CAUTION

ALL STEPS ASSOCIATED WITH SETTING THE DOOR LIMITS MUST BE PERFORMED WITH EMERGENCY STOP BUTTON PULLED OUT.

3. Pull out the emergency stop button and put the system into the setup mode by pressing the **SETUP** button (located on the control panel backplate). The **RESET** button on the face of the panel should be illuminated. The 11-CR relay should also be energized also at this point. On the PLC the Y0, Y5 lights will be lit.

4. Using the **UP/DOWN JOG DOOR** switch located on the control panel backplate (small rocker switch), jog the door in the up direction. If the door opens, then go to the next step. If the door closes, then the phase rotation on the drive unit is backwards. Swap two of the three motor leads in the panel to change the motor rotation (Terminals T11, T12, and T13).

IMPORTANT NOTE

FOR THE FOLLOWING STEPS IT IS IMPORTANT TO ENSURE THE DOOR IS MOVING WHEN THE RESET BUTTON IS PUSHED TO SET THE CLOSE LIMIT. DO NOT RELEASE THE JOG SWITCH UNTIL DOOR HAS STOPPED MOVING.

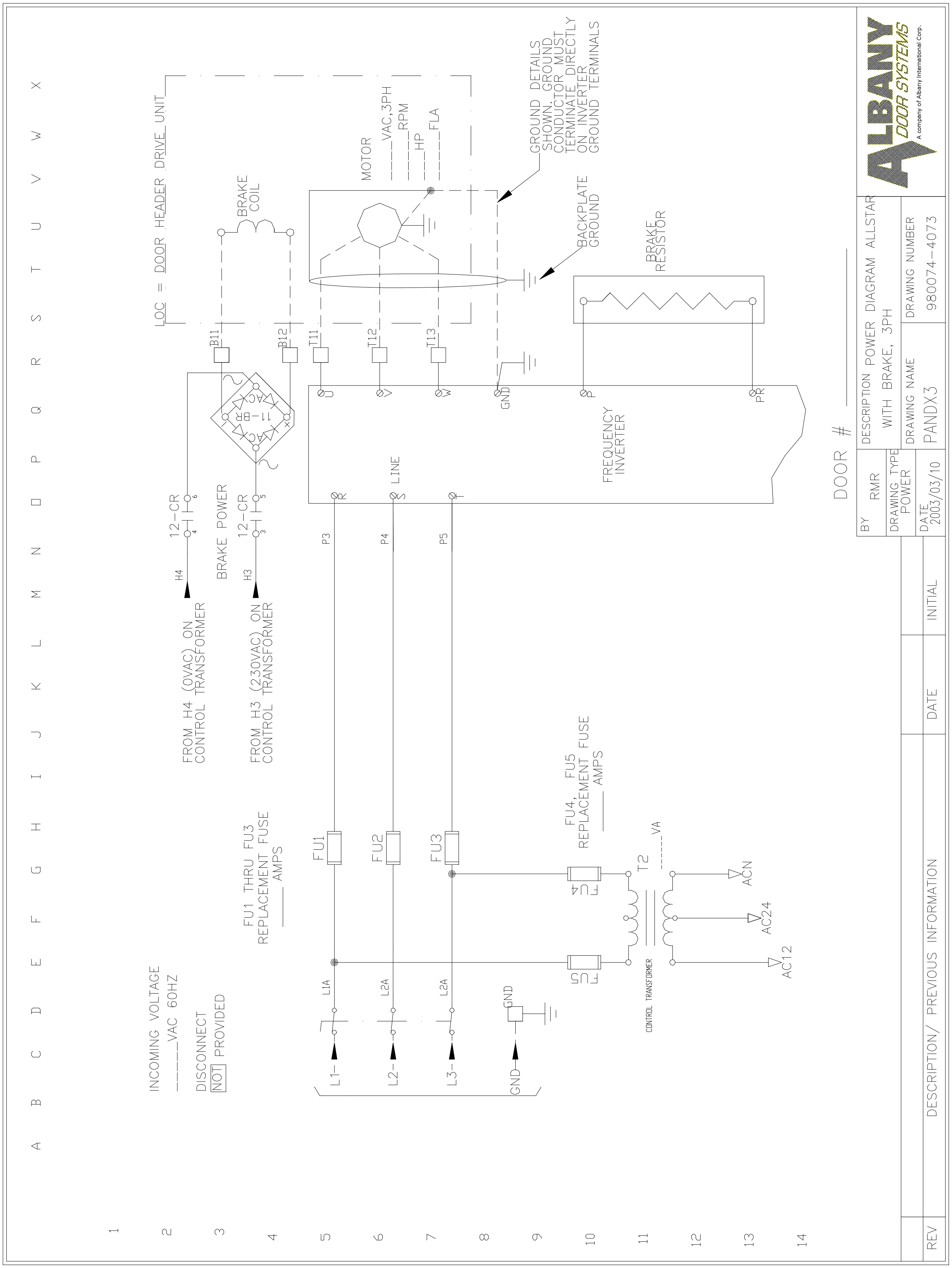
Setting the Door Limits

1. Press the **SETUP** button putting the door into the setup mode. The **RESET** should be illuminated at this point.
2. Using the **JOG SWITCH** to run the door down. While the door is closing, press the **RESET** button when the door reaches the desired bottom limit position. This would be before the door actually stops on the ground. The PLC will set this as the doors' bottom limit. The **RESET** button will go out also when you set this limit.
3. Put the system in the setup mode again by pressing the **SETUP** button.
4. Run the door open using the **JOG SWITCH**. When door reaches the open limit proximity switch, it will stop automatically and the top limit position will be set. The PLC will automatically set this as the doors top limit. The **RESET** light will also go out at this time.
5. Put the system in the setup mode by pressing the **SETUP** button.
6. Run the door to the halfway point using the **JOG SWITCH**. This time release the JOG SWITCH and allow the door to come to a complete stop. Press the RESET button to clear the setup mode.
7. Push the actuator button. As the door cycles, observe the open and close limits. Reset the limits as necessary to obtain exact desired limits (repeat steps 1-6 as necessary).
8. Check all actuators for proper operation. Check all reversing photocells for proper operation.
9. Verify the automatic operation of the door. The time delay to close is adjustable via an adjustment screw on the face of the PLC. If non-automatic mode is desired for door operation, turn the adjustment screw fully counterclockwise. In non-automatic mode, the actuator must be pulsed to open the door and pulsed again to close the door.

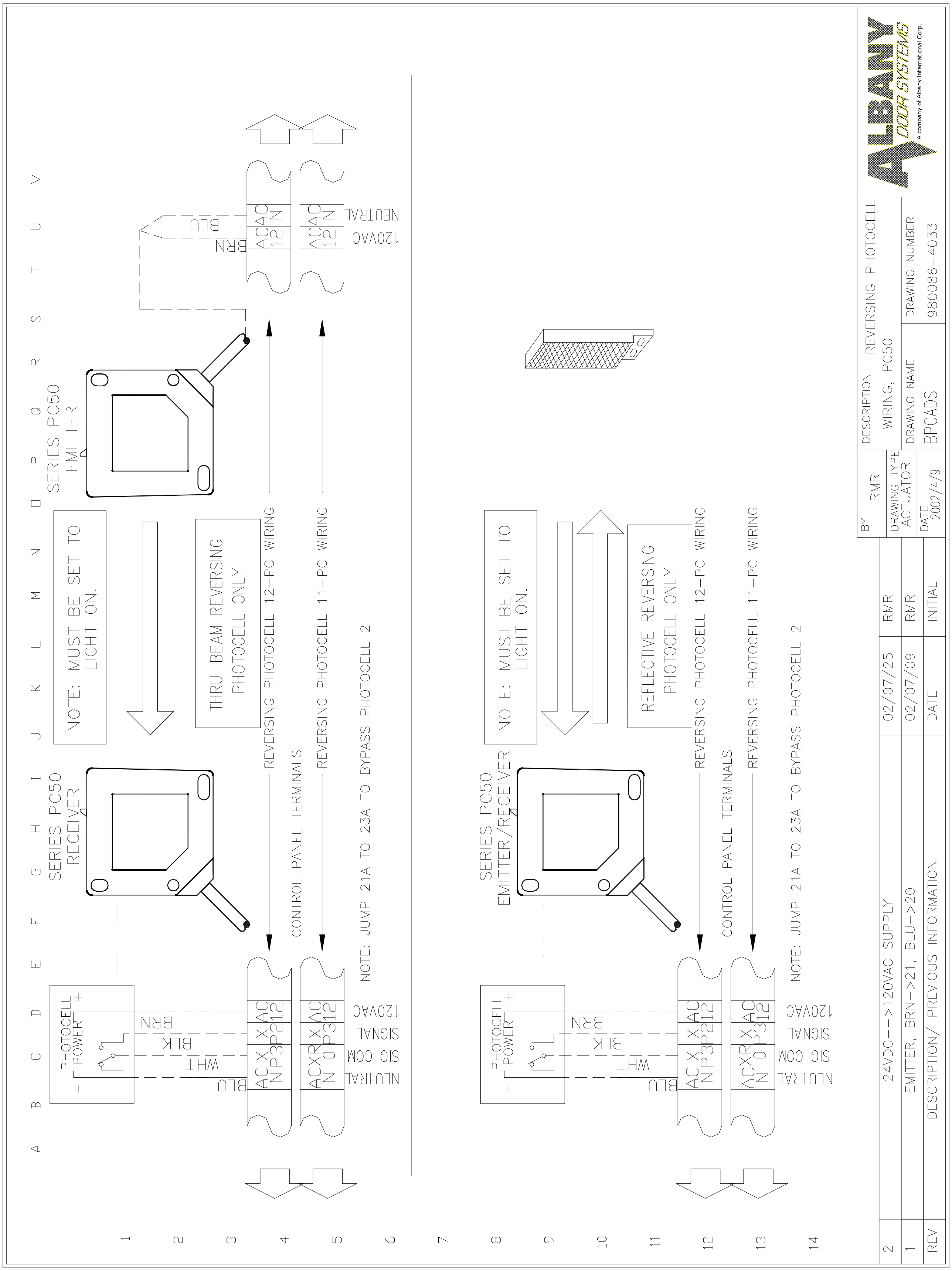
NOTE
NON-AUTOMATIC MODE CANNOT BE USED WITH MOTION DETECTORS, LOOP DETECTORS, OR PRESENCE SENSORS.

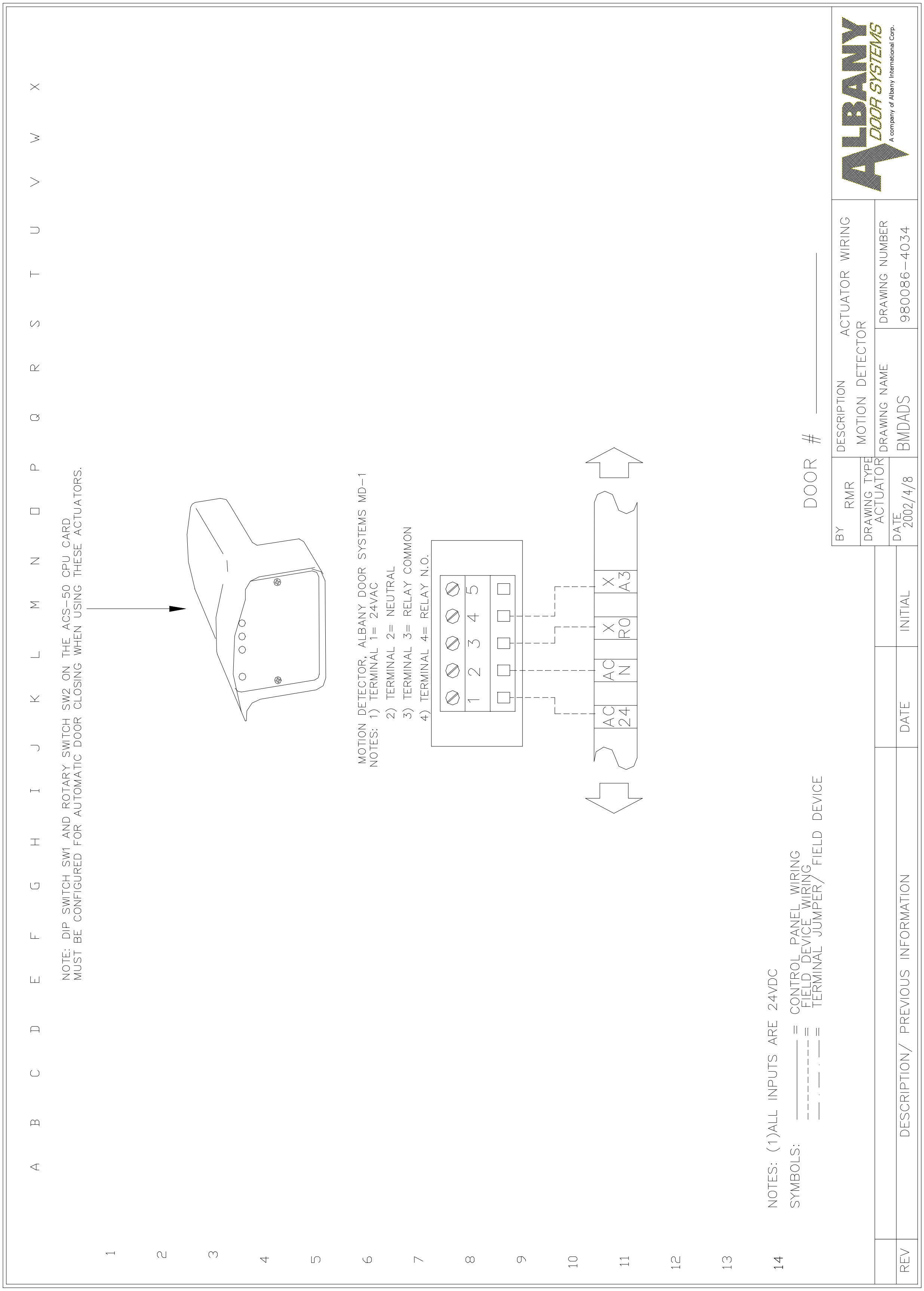
Final Checks

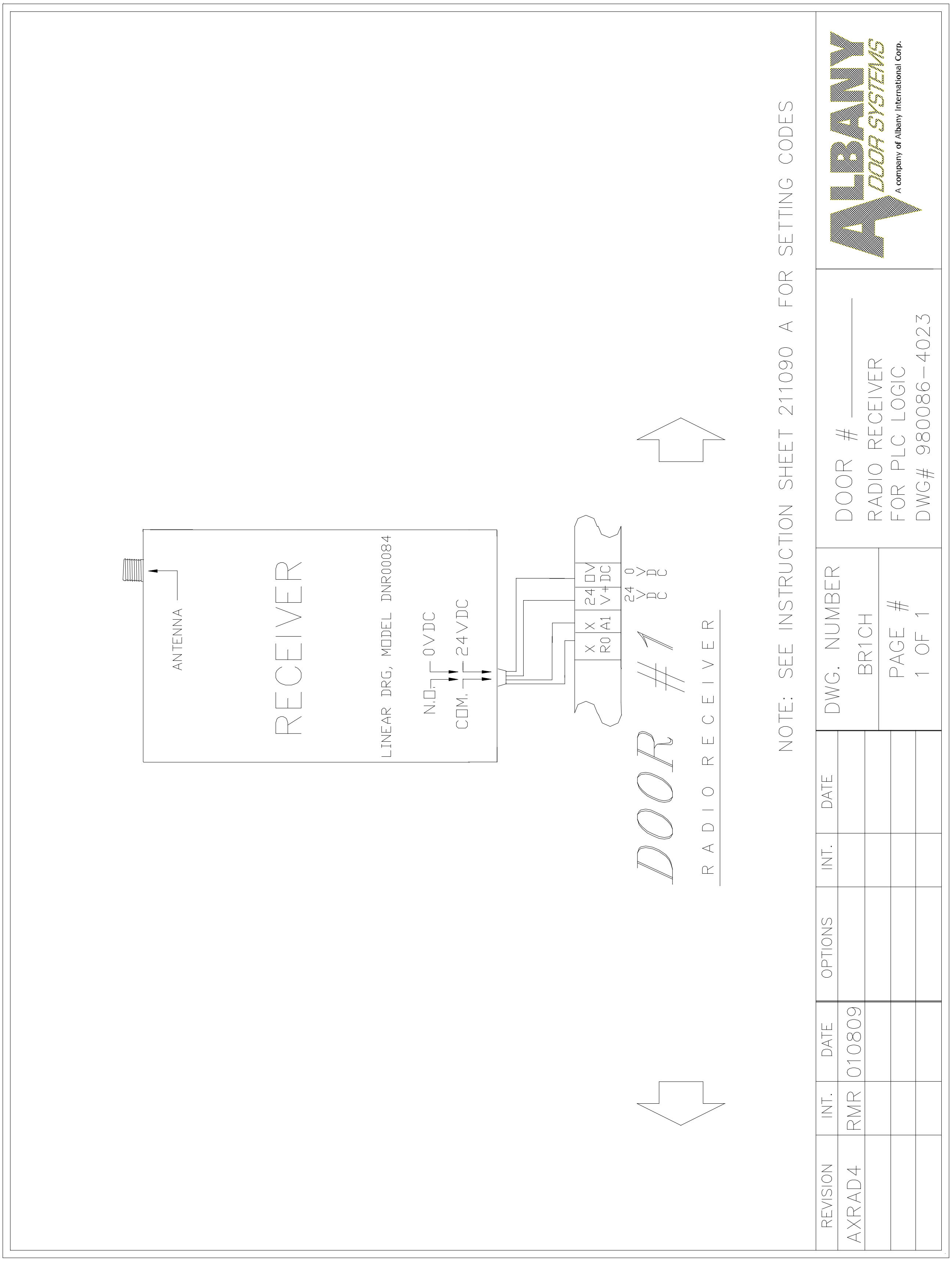
1. Check photocells for proper operation. Breaking the photocell beam should reverse the door
2. Check all actuators for proper operation.

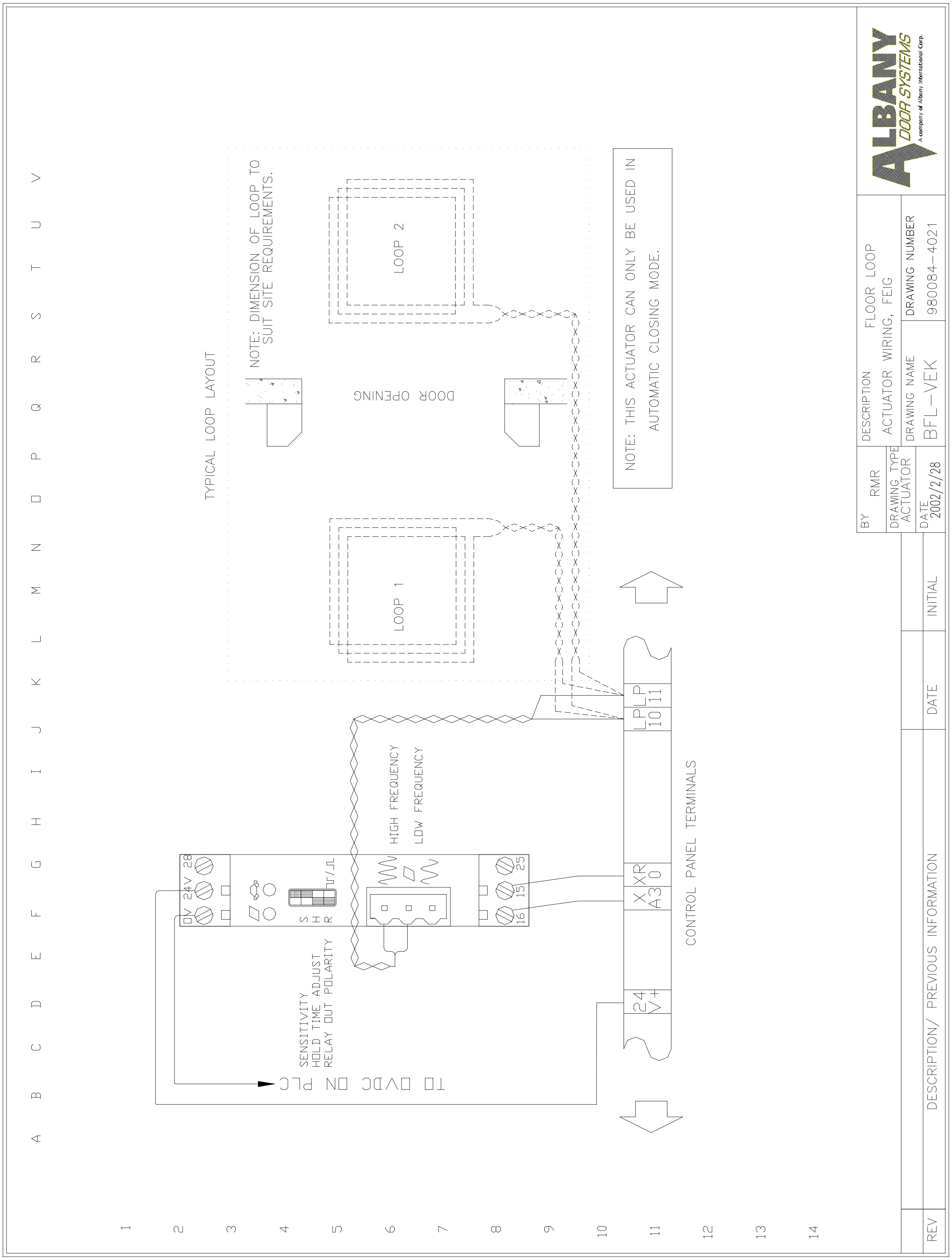

LOC = DOOR HEADER DRIVE UNIT
BRAKE COIL
MOTOR
GROUND DETAILS SHOWN. GROUND CONDUCTOR MUST TERMINATE DIRECTLY ON INVERTER GROUND TERMINALS
BACKPLATE GROUND
BRAKE RESISTOR
FREQUENCY INVERTER
LINE
BRAKE POWER
FROM H4 (0VAC) ON CONTROL TRANSFORMER
FROM H3 (230VAC) ON CONTROL TRANSFORMER
FU1 THRU FU3 REPLACEMENT FUSE AMPS
FU4, FU5 REPLACEMENT FUSE AMPS
INCOMING VOLTAGE VAC 60HZ
DISCONNECT NOT PROVIDED
CONTROL TRANSFORMER
DOOR #
DESCRIPTION POWER DIAGRAM ALLSTAR WITH BRAKE, 3PH
BY RMR
DRAWING TYPE POWER
DATE 2003/03/10
DRAWING NAME PANDX3
DRAWING NUMBER 980074-4073
REV
DESCRIPTION/ PREVIOUS INFORMATION
DATE
INITIAL

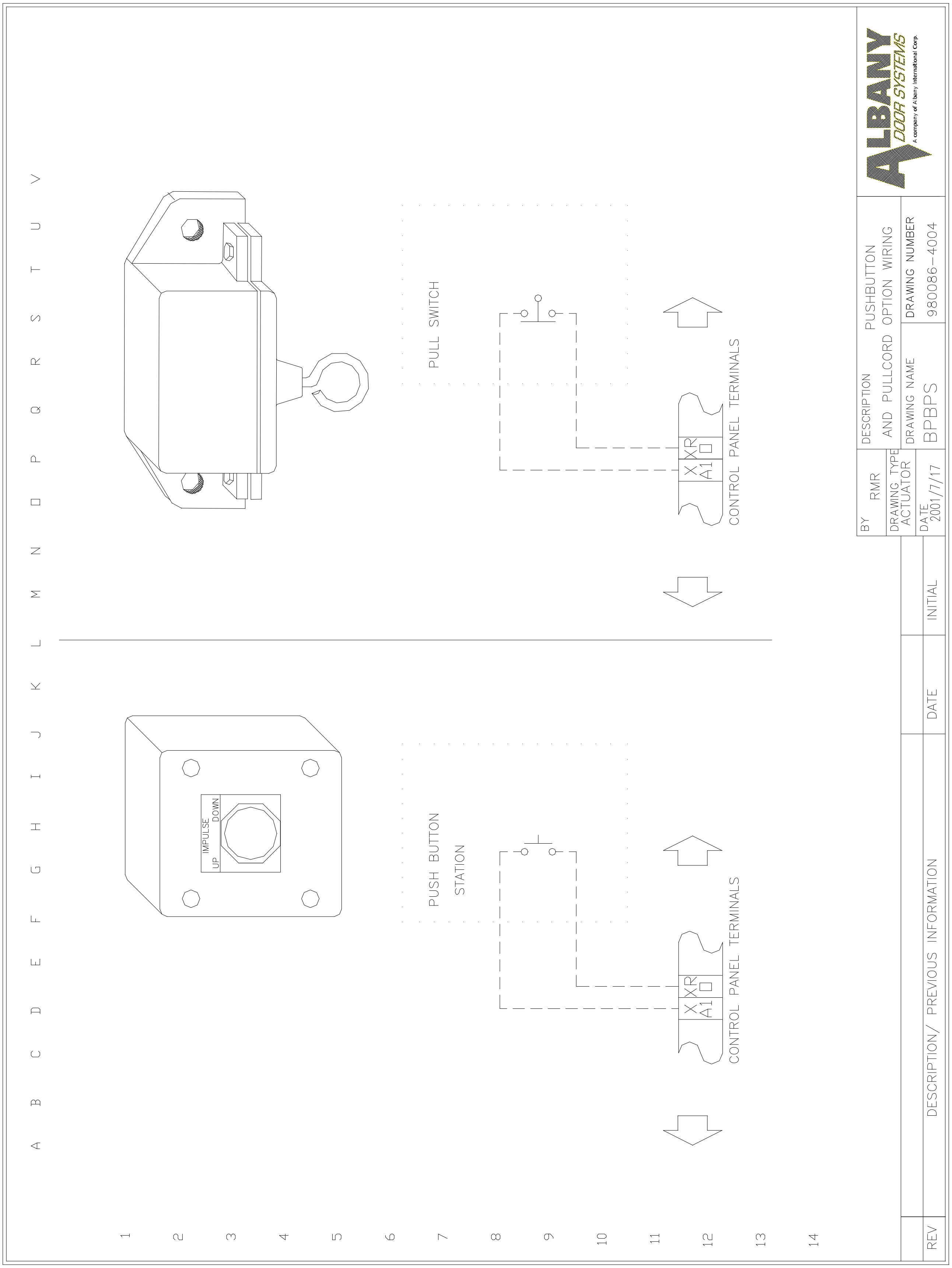
Optional Photocell Wiring – 355, RR3000



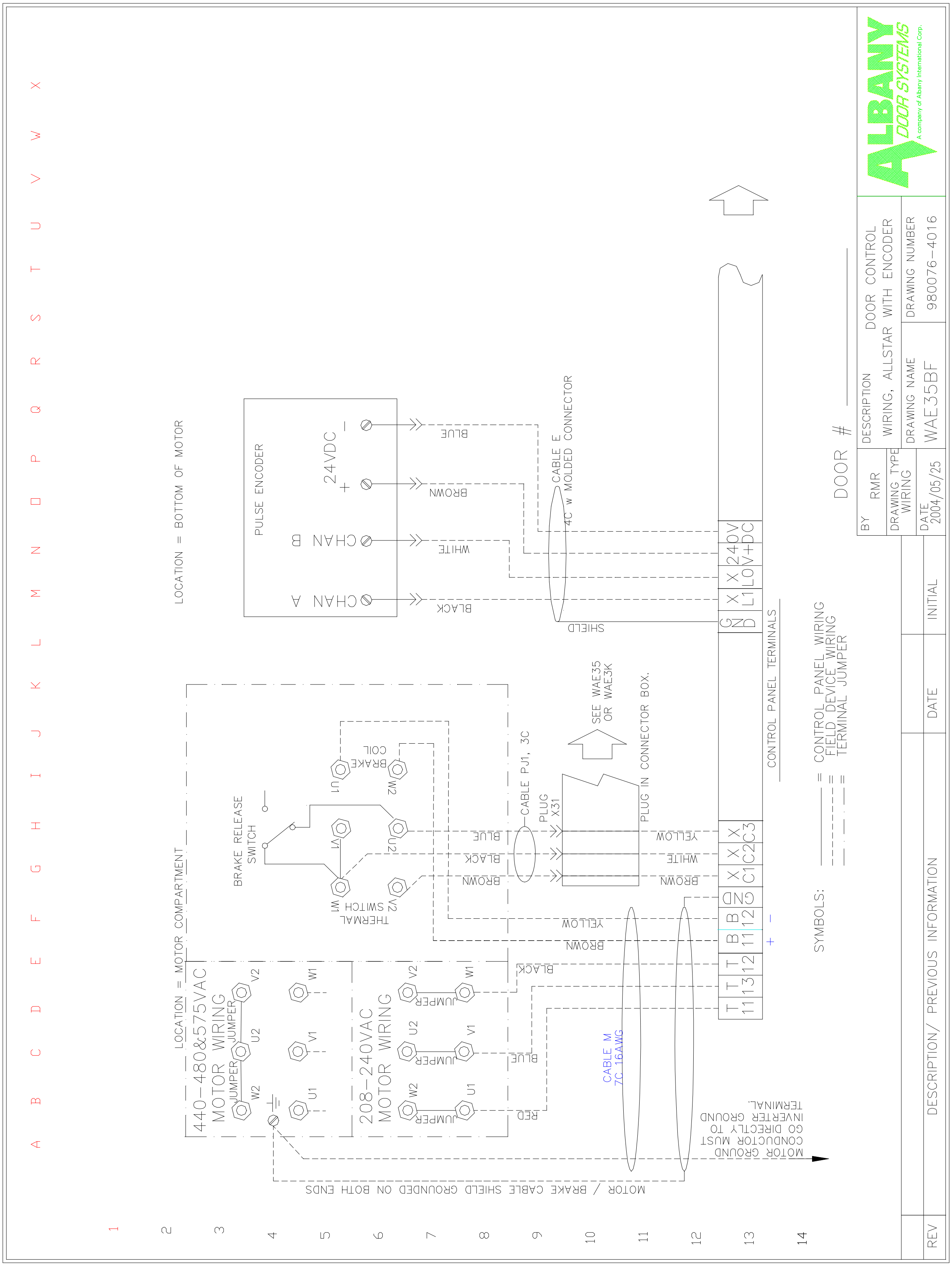

NOTE: DIP SWITCH SW1 AND ROTARY SWITCH SW2 ON THE ACS-50 CPU CARD
MUST BE CONFIGURED FOR AUTOMATIC DOOR CLOSING WHEN USING THESE ACTUATORS.
MOTION DETECTOR, ALBANY DOOR SYSTEMS MD-1
NOTES: 1) TERMINAL 1= 24VAC
2) TERMINAL 2= NEUTRAL
3) TERMINAL 3= RELAY COMMON
4) TERMINAL 4= RELAY N.O.
1 2 3 4 5
AC 24
AC N
X RO
X A3
NOTES: (1)ALL INPUTS ARE 24VDC
SYMBOLS: = CONTROL PANEL WIRING
= FIELD DEVICE WIRING
= TERMINAL JUMPER/ FIELD DEVICE
DOOR #
BY RMR
DESCRIPTION MOTION DETECTOR ACTUATOR WIRING
DRAWING TYPE ACTUATOR
DRAWING NAME BMDADS
DRAWING NUMBER 980086-4034
DATE 2002/4/8
REV
DESCRIPTION/ PREVIOUS INFORMATION
DATE
INITIAL
ALBANY DOOR SYSTEMS
A company of Albany International Corp.


NOTE: SEE INSTRUCTION SHEET 211090 A FOR SETTING CODES
ANTENNA
RECEIVER
LINEAR DRG, MODEL DNR00084
N.O.
COM.
0VDC
24VDC
X RO
X A1
24 V+
0V DC
24 VDC
0 VDC
DOOR #1
RADIO RECEIVER
DOOR # ____
RADIO RECEIVER
FOR PLC LOGIC
DWG# 980086-4023
DWG. NUMBER
BR1CH
PAGE #
1 OF 1
REVISION
AXRAD4
INT.
RMR
DATE
010809
OPTIONS
INT.
DATE

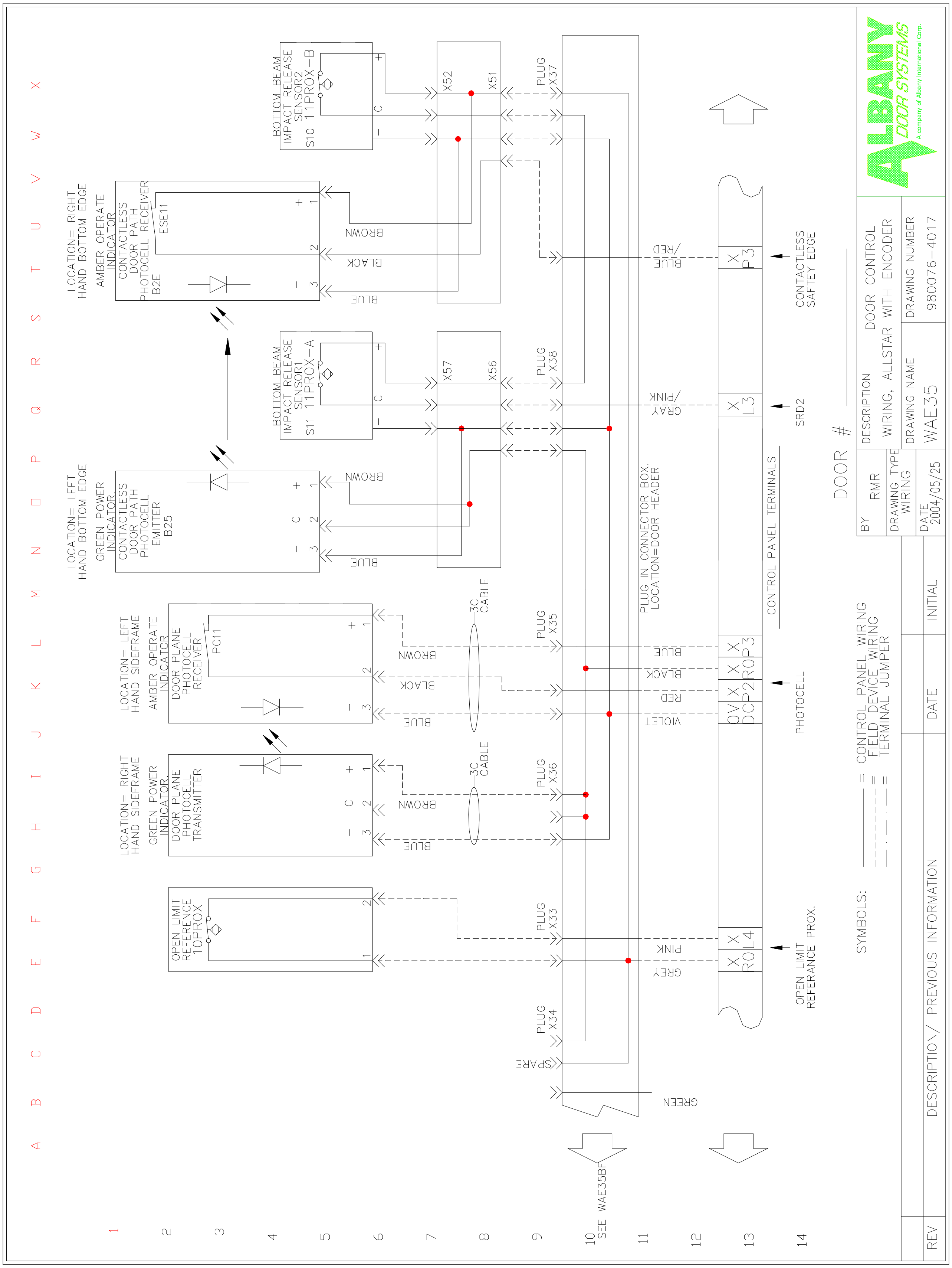

TYPICAL LOOP LAYOUT
NOTE: DIMENSION OF LOOP TO SUIT SITE REQUIREMENTS.
LOOP 2
LOOP 1
DOOR OPENING
NOTE: THIS ACTUATOR CAN ONLY BE USED IN AUTOMATIC CLOSING MODE.
HIGH FREQUENCY
LOW FREQUENCY
SENSITIVITY
HOLD TIME ADJUST
RELAY OUT POLARITY
TO 0VDC ON PLC
CONTROL PANEL TERMINALS
LP 10
LP 11
X A3
XR 0
24 V+
BY RMR
DRAWING TYPE ACTUATOR
DATE 2002/2/28
DESCRIPTION FLOOR LOOP ACTUATOR WIRING, FEIG
DRAWING NAME BFL-VEK
DRAWING NUMBER 980084-4021
REV
DESCRIPTION/ PREVIOUS INFORMATION
DATE
INITIAL

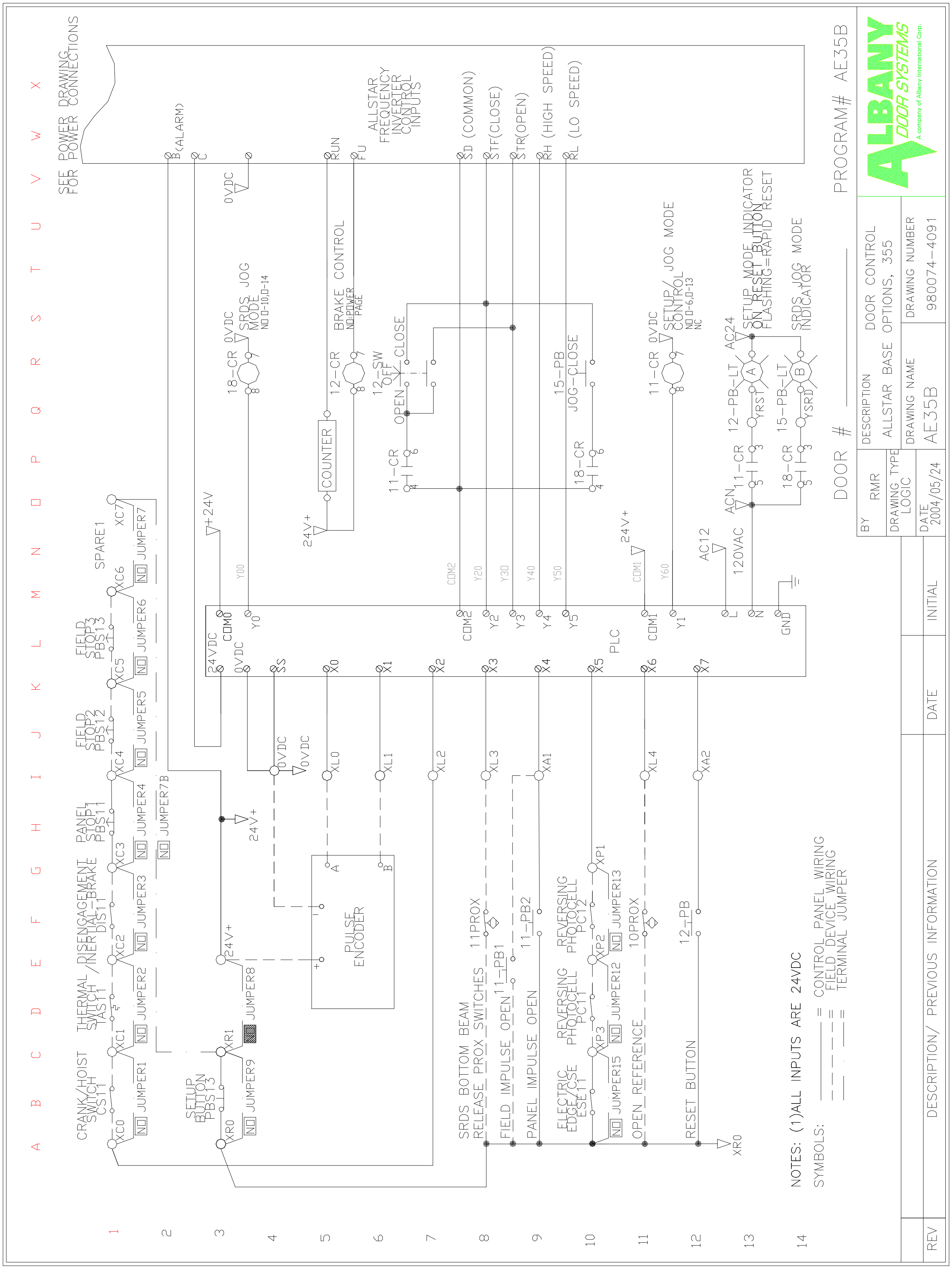


PULL SWITCH
CONTROL PANEL TERMINALS
X
XR
A1
PUSH BUTTON STATION
UP
IMPULSE
DOWN
CONTROL PANEL TERMINALS
X
XR
A1
BY RMR
DESCRIPTION PUSHBUTTON AND PULLCORD OPTION WIRING
DRAWING TYPE ACTUATOR
DRAWING NAME BPBPS
DRAWING NUMBER 980086-4004
DATE 2001/7/17
REV
DESCRIPTION/ PREVIOUS INFORMATION
DATE
INITIAL



LOCATION = BOTTOM OF MOTOR
PULSE ENCODER
24VDC
CHAN A
CHAN B
CABLE E
4C w MOLDED CONNECTOR
SHIELD
CONTROL PANEL TERMINALS
LOCATION = MOTOR COMPARTMENT
BRAKE RELEASE SWITCH
THERMAL SWITCH
BRAKE COIL
CABLE PJ1, 3C
PLUG X31
PLUG IN CONNECTOR BOX.
SEE WAE35 OR WAE3K
440-480&575VAC MOTOR WIRING
208-240VAC MOTOR WIRING
JUMPER
CABLE M
7C 16AWG
MOTOR GROUND CONDUCTOR MUST GO DIRECTLY TO INVERTER GROUND TERMINAL.
MOTOR / BRAKE CABLE SHIELD GROUNDED ON BOTH ENDS
SYMBOLS:
= CONTROL PANEL WIRING
= FIELD DEVICE WIRING
= TERMINAL JUMPER
DOOR #
DESCRIPTION
DOOR CONTROL WIRING, ALLSTAR WITH ENCODER
BY RMR
DRAWING TYPE WIRING
DRAWING NAME WAE35BF
DRAWING NUMBER 980076-4016
DATE 2004/05/25
REV
DESCRIPTION/ PREVIOUS INFORMATION
DATE
INITIAL


BOTTOM BEAM IMPACT RELEASE SENSOR2 S10 11PROX-B
BOTTOM BEAM IMPACT RELEASE SENSOR1 S11 11PROX-A
LOCATION= RIGHT HAND BOTTOM EDGE
AMBER OPERATE INDICATOR
CONTACTLESS DOOR PATH PHOTOCELL RECEIVER B2E
ESE11
LOCATION= LEFT HAND BOTTOM EDGE
GREEN POWER INDICATOR
CONTACTLESS DOOR PATH PHOTOCELL EMITTER B25
LOCATION= LEFT HAND SIDEFRAME
AMBER OPERATE INDICATOR
DOOR PLANE PHOTOCELL RECEIVER
PC11
LOCATION= RIGHT HAND SIDEFRAME
GREEN POWER INDICATOR
DOOR PLANE PHOTOCELL TRANSMITTER
OPEN LIMIT REFERENCE 10PROX
PLUG X37
PLUG X38
PLUG X35
PLUG X36
PLUG X33
PLUG X34
X52
X51
X57
X56
3C CABLE
BROWN
BLACK
BLUE
RED
VIOLET
PINK
GREY
BLUE/RED
GRAY/PINK
SPARE
GREEN
PLUG IN CONNECTOR BOX. LOCATION=DOOR HEADER
CONTROL PANEL TERMINALS
CONTACTLESS SAFTEY EDGE
SRD2
PHOTOCELL
OPEN LIMIT REFERANCE PROX.
SEE WAE35BF
SYMBOLS:
= CONTROL PANEL WIRING
= FIELD DEVICE WIRING
= TERMINAL JUMPER
DOOR #
DESCRIPTION
DOOR CONTROL WIRING, ALLSTAR WITH ENCODER
BY RMR
DRAWING TYPE WIRING
DRAWING NAME WAE35
DRAWING NUMBER 980076-4017
DATE 2004/05/25
REV
DESCRIPTION/ PREVIOUS INFORMATION
DATE
INITIAL



SEE POWER DRAWING FOR POWER CONNECTIONS
ALLSTAR FREQUENCY INVERTER CONTROL INPUTS
PLC
PULSE ENCODER
COUNTER
BRAKE CONTROL
NOTES: (1)ALL INPUTS ARE 24VDC
SYMBOLS:
= CONTROL PANEL WIRING
= FIELD DEVICE WIRING
= TERMINAL JUMPER
PROGRAM# AE35B
DOOR #
DESCRIPTION ALLSTAR BASE DOOR CONTROL OPTIONS, 355
DRAWING NAME AE35B
DRAWING NUMBER 980074-4091
BY RMR
DRAWING TYPE LOGIC
DATE 2004/05/24
REV
DESCRIPTION/ PREVIOUS INFORMATION
DATE
INITIAL

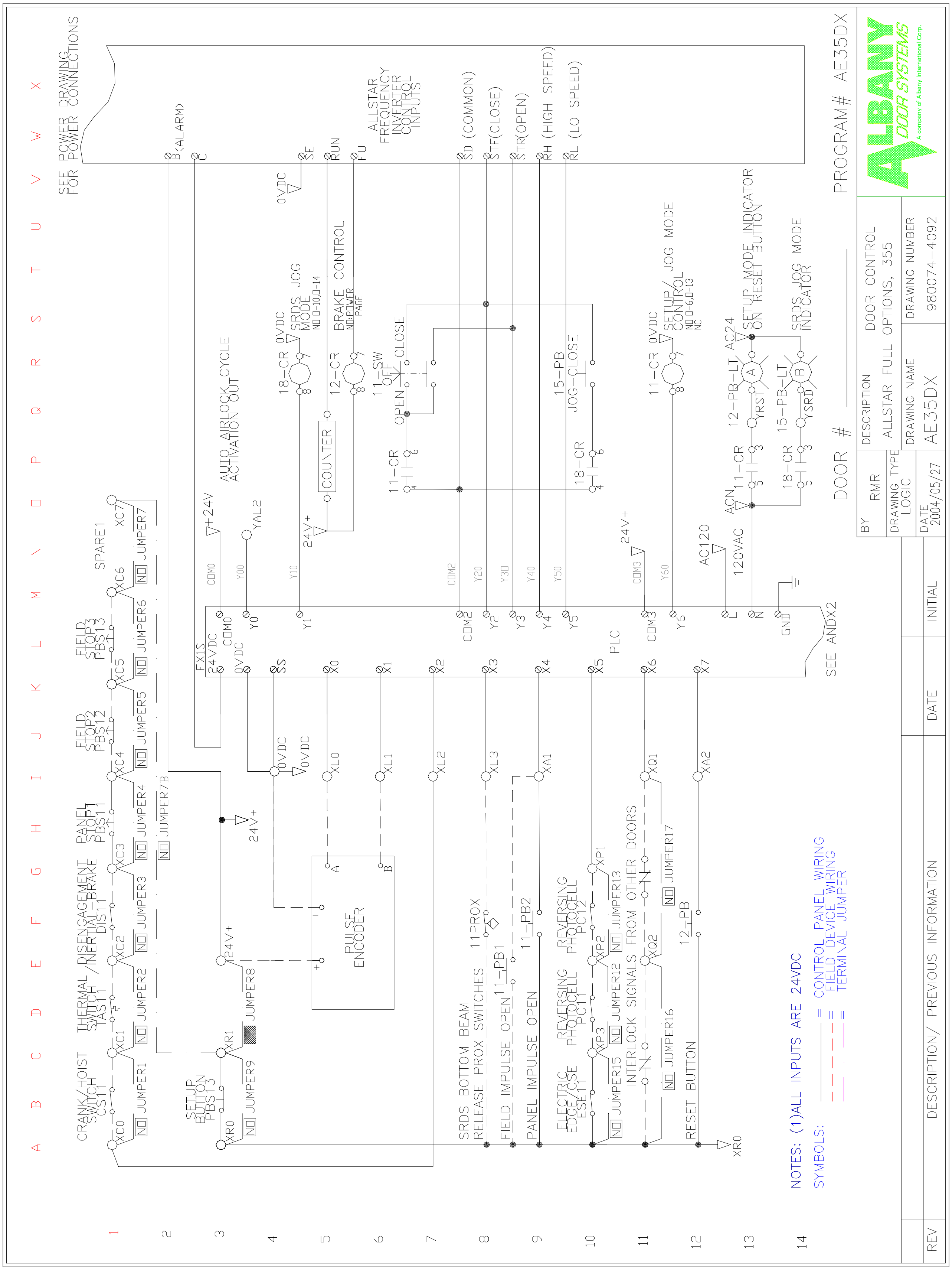
TROUBLESHOOTING GUIDE
For programs AE35B

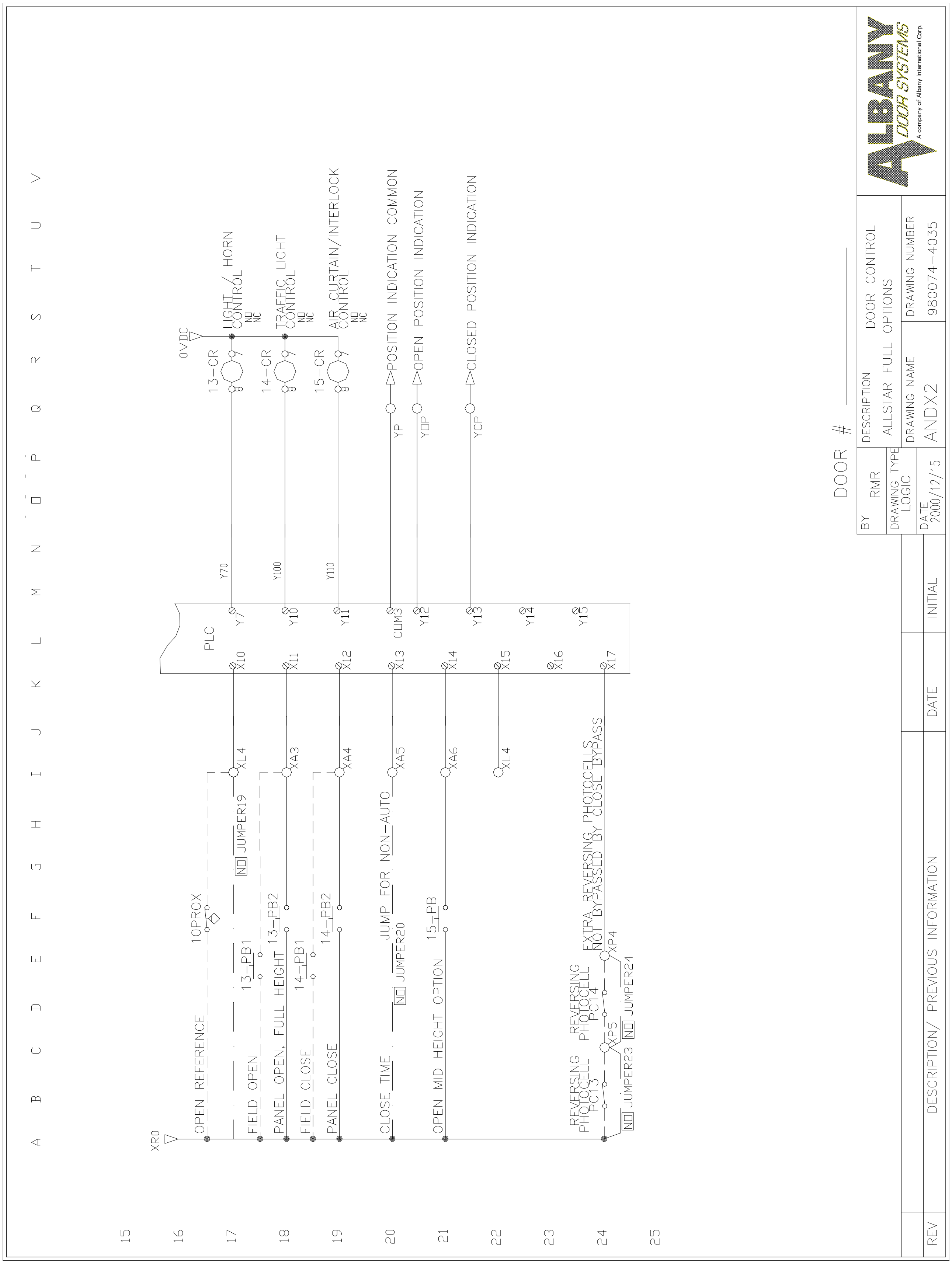
WARNING: ***ALL ELECTRICAL TROUBLESHOOTING OR SERVICE MUST BE PERFORMED BY A QUALIFIED ELECTRICIAN OR SERVICE PERSON AND MUST MEET ALL APPLICABLE LOCAL, STATE, FEDERAL, AND OTHER GOVERNING AGENCY CODES. EXERCISE EXTREME CAUTION WHEN IT IS NECESSARY TO SERVICE THE CONTROL PANEL WHILE IT IS ENERGIZED.***

The **POWER** and **RUN** green LED's on the PLC must be on. If not, check for 120V power to terminals AC12 & ACN. If no power is present, de-energize control panel and check main disconnect and all control panel fuses. Fuses **FU1 thru FU3** are the main power supply to the panel. Fuses **FU4 & FU5** are for 120 VAC power supply to the PLC. At least one, red input LED's on the PLC should be on. If not, ensure the **EMERGENCY STOP** button is pulled out. If no inputs turn on, check for missing jumpers and/or switch wiring in series with the **EMERGENCY STOP** button (i.e. crank/chain hoist switch, thermal overloads, inertia brake contact, etc.).

PLC INPUTS (X0-X7)

INPUTS ("IN" LED'S)	Terminal #	DESCRIPTION
0	XL0	**Encoder Position Signal – Channel A.** Flickers when doors runs.
1	XL1	**Encoder Position Signal – Channel B.** Flickers when doors runs.
2	XL2	**Shutdown Devices.** Should be lit unless a shutdown device (E-Stop, Crank Switch, ect) or **SRD** is activated
3	XL3	**SRDS Proximity.** Should be lit unless bottom beam is hit out.
3-7		**Setup**. ALL Should be lit unless the setup button has been tripped.
4	XA1	**Actuator Impulse Open**. Will come on for as long as the actuator has been activated. If on continuously, check actuators.
5	XP1, XP2, XP3	**Safety Devices**. Photocell, CSE and Reversing edge contacts are wired in series with this input. Should be on unless a safety device is activated. (N/C)
6	XL4	**Open Reference Prox.** Should be on unless door is near open position.
7	XA2	**Reset Button**. Will Reset the door when activated.





DOOR #
DESCRIPTION
ALLSTAR FULL OPTIONS
DOOR CONTROL
BY
RMR
DRAWING TYPE
LOGIC
DRAWING NAME
ANDX2
DRAWING NUMBER
980074-4035
DATE
2000/12/15
REV
DESCRIPTION/ PREVIOUS INFORMATION
DATE
INITIAL
PLC
OPEN REFERENCE
FIELD OPEN
PANEL OPEN, FULL HEIGHT
FIELD CLOSE
PANEL CLOSE
CLOSE TIME
JUMP FOR NON-AUTO
OPEN MID HEIGHT OPTION
EXTRA REVERSING PHOTOCELLS
NOT BYPASSED BY CLOSE BYPASS
LIGHT / HORN CONTROL
TRAFFIC LIGHT CONTROL
AIR CURTAIN/INTERLOCK CONTROL
POSITION INDICATION COMMON
OPEN POSITION INDICATION
CLOSED POSITION INDICATION

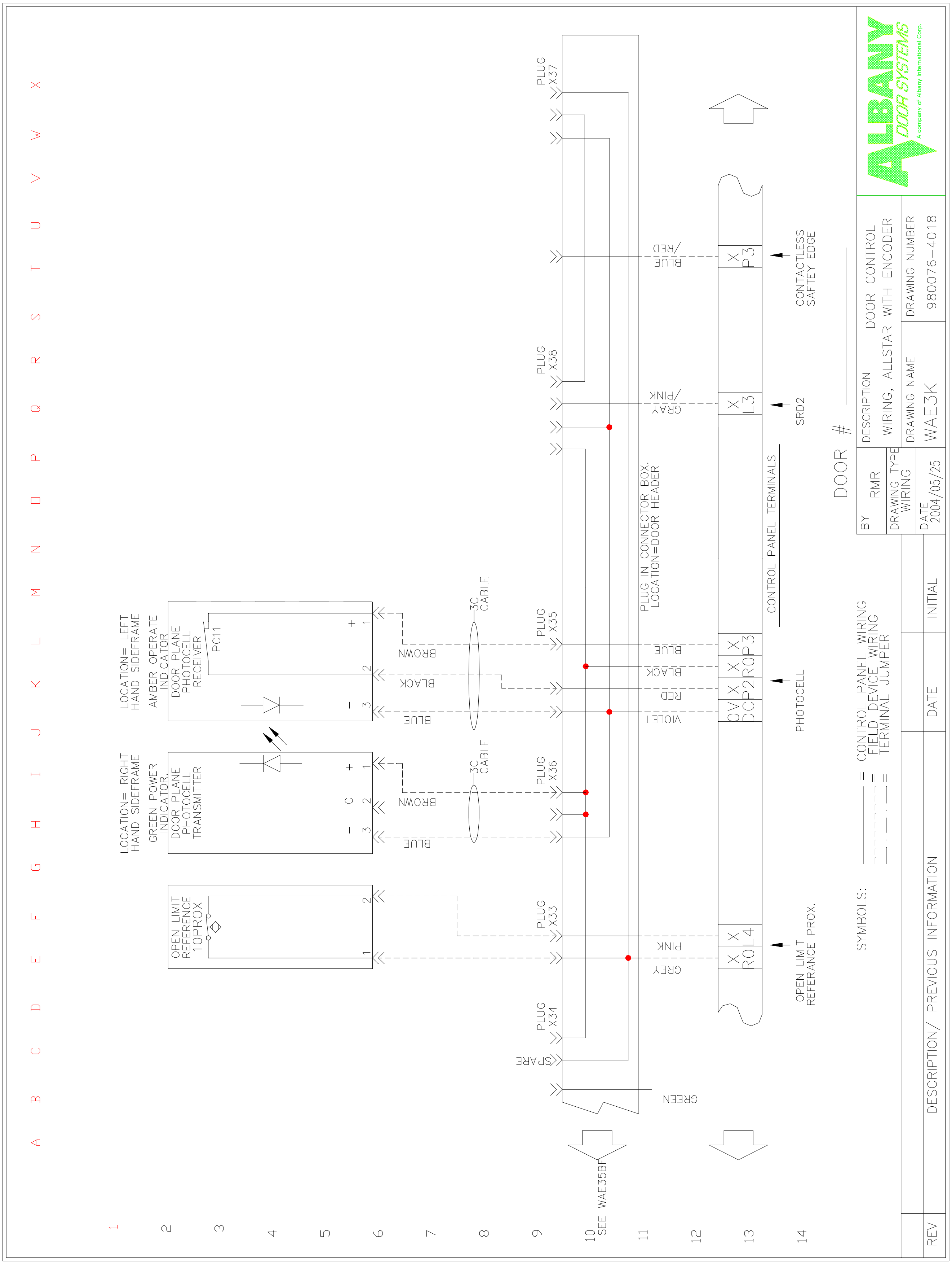
TROUBLESHOOTING GUIDE For program AE35DX

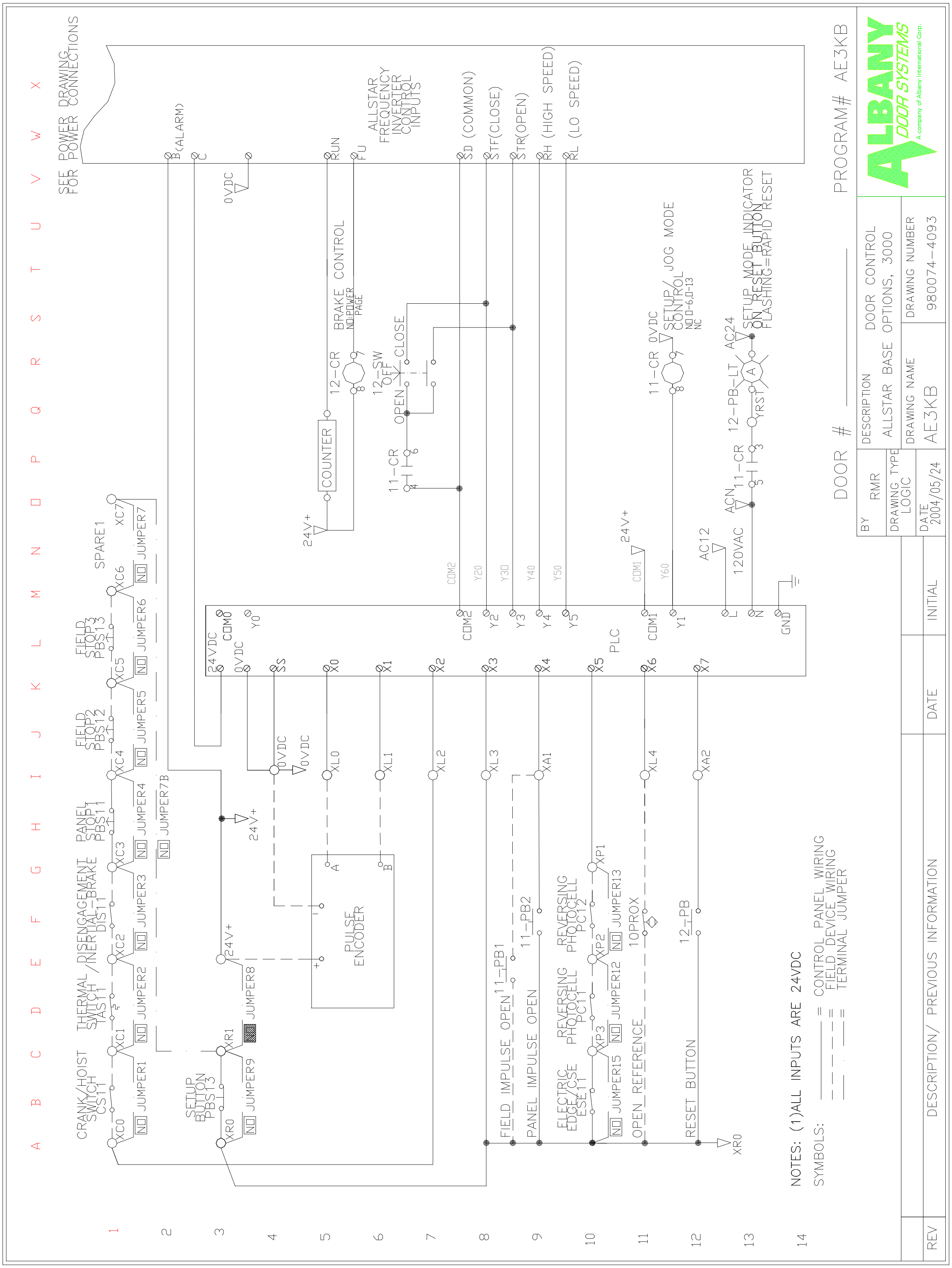
WARNING:ALL ELECTRICAL TROUBLESHOOTING OR SERVICE MUST BE PERFORMED BY A QUALIFIED ELECTRICIAN OR SERVICE PERSON AND MUST MEET ALL APPLICABLE LOCAL, STATE, FEDERAL, AND OTHER GOVERNING AGENCY CODES. EXERCISE EXTREME CAUTION WHEN IT IS NECESSARY TO SERVICE THE CONTROL PANEL WHILE IT IS ENERGIZED.

The **POWER** and **RUN** green LED's on the PLC must be on. If not, check for 120V power to terminals AC12 &ACN. If no power is present, de-energize control panel and check main disconnect and all control panel fuses. Fuses **FU1 thru FU3** are the main power supply to the panel. Fuses **FU4 & FU5** are for 120 VAC power supply to the PLC. At least one, red input LED's on the PLC should be on. If not, ensure the **EMERGENCY STOP** button is pulled out. If no inputs turn on, check for missing jumpers and/or switch wiring in series with the **EMERGENCY STOP** button (i.e. crank/chain hoist switch, thermal overloads, inertia brake contact, etc.).

PLC INPUTS (X0-X17)

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3	XL3	**SRDS Proximity.** Should be lit unless bottom beam is hit out.
3 THRU 17		**Setup**. Should be lit unless the setup button has been tripped.
4	XA1	**Impulse Open**. Will come lit for as long as the actuator has been activated. If on continuously, check actuators.
5	XP1, XP2, XP3	**Safety Devices**. Photocell, CSE and Reversing edge contacts are wired in series with this input. Should be lit unless a safety device is activated. (N/C)
6	XQ1, XQ2	**Interlock.** Needs be lit to enable door operation, or jumped out if no interlock is being using.
7	XA2	**Reset Button**. Will Reset the door when activated.
10	XL4	**Open Reference Proximity.** Should be on unless door is near open position.
11	XA3	**Actuator Full Height Open**. Will come lit for as long as the actuator has been activated. If on continuously, check actuators.
12	XA4	**Actuator Close**. Will come on for as long as the actuator has been activated. If on continuously, check actuators.
13	XA5	**Auto/Manual**. Jump for non-auto. (Will be lit when in Manual mode)
14	XA6	**Actuator Mid Height Open**. Will become lit for as long as the actuator has been activated. If on continuously, check actuators.
17	XP4, XP5	**Extra Reversing Photocells**. Will be lit (N/C). If no photocells are being used, should be jumped out for normal door operation.





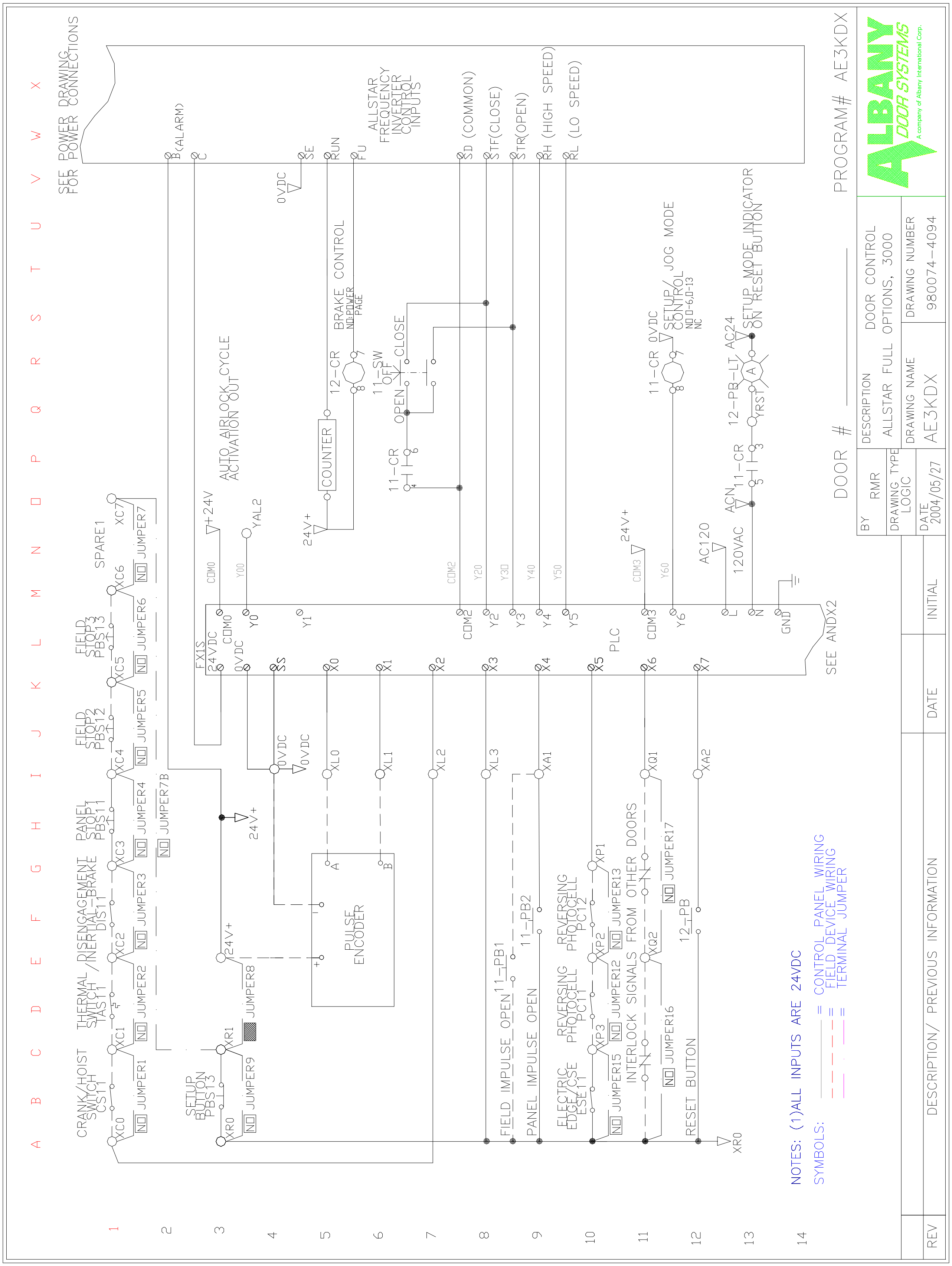
SEE POWER DRAWING FOR POWER CONNECTIONS
ALLSTAR FREQUENCY INVERTER CONTROL INPUTS
BRAKE CONTROL
COUNTER
SETUP/ JOG MODE CONTROL
SETUP MODE INDICATOR ON, RESET BUTTON FLASHING=RAPID RESET
PLC
PULSE ENCODER
CRANK/HOIST SWITCH CS11
THERMAL SWITCH TAS11
DISENGAGEMENT /INERTIAL-BRAKE DIS11
PANEL STOP1 PBS11
FIELD STOP2 PBS12
FIELD STOP3 PBS13
SPARE1
SETUP BUTTON PBS13
FIELD IMPULSE OPEN
PANEL IMPULSE OPEN
ELECTRIC EDGE/CSE ESE11
REVERSING PHOTOCELL PC11
REVERSING PHOTOCELL PC12
OPEN REFERENCE
1OPROX
RESET BUTTON
NOTES: (1)ALL INPUTS ARE 24VDC
SYMBOLS:
= CONTROL PANEL WIRING
= FIELD DEVICE WIRING
= TERMINAL JUMPER
PROGRAM# AE3KB
DOOR #
BY RMR
DESCRIPTION DOOR CONTROL ALLSTAR BASE OPTIONS, 3000
DRAWING TYPE LOGIC
DRAWING NAME AE3KB
DRAWING NUMBER 980074-4093
DATE 2004/05/24
REV
DESCRIPTION/ PREVIOUS INFORMATION
DATE
INITIAL

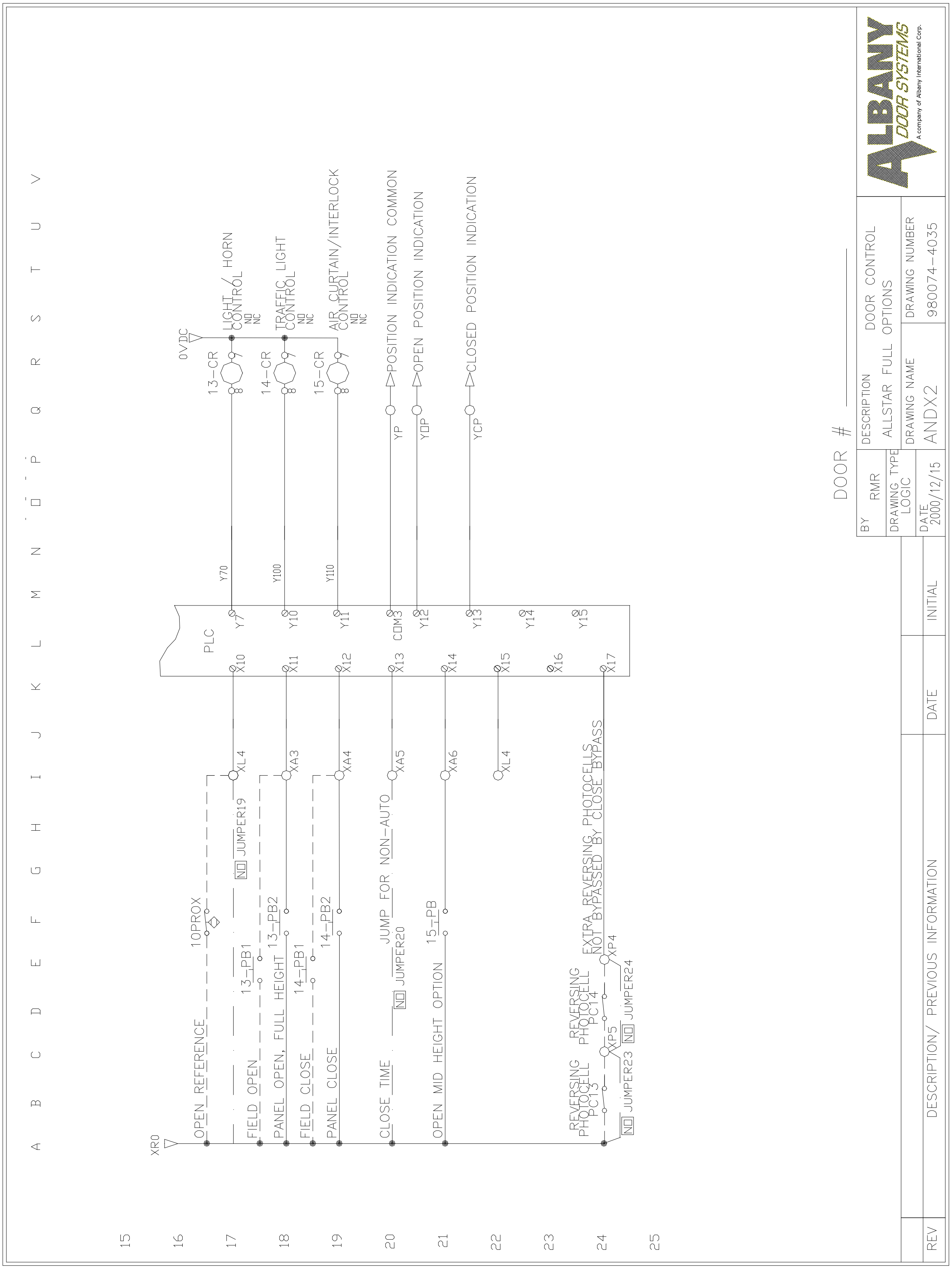
TROUBLESHOOTING GUIDE
For programs AE3KB

WARNING: ALL ELECTRICAL TROUBLESHOOTING OR SERVICE MUST BE PERFORMED BY A QUALIFIED ELECTRICIAN OR SERVICE PERSON AND MUST MEET ALL APPLICABLE LOCAL, STATE, FEDERAL, AND OTHER GOVERNING AGENCY CODES. EXERCISE EXTREME CAUTION WHEN IT IS NECESSARY TO SERVICE THE CONTROL PANEL WHILE IT IS ENERGIZED.

The **POWER** and **RUN** green LED's on the PLC must be on. If not, check for 120V power to terminals AC12 & ACN. If no power is present, de-energize control panel and check main disconnect and all control panel fuses. Fuses **FU1 thru FU3** are the main power supply to the panel. Fuses **FU4 & FU5** are for 120 VAC power supply to the PLC. At least one, red input LED's on the PLC should be on. If not, ensure the **EMERGENCY STOP** button is pulled out. If no inputs turn on, check for missing jumpers and/or switch wiring in series with the **EMERGENCY STOP** button (i.e. crank/chain hoist switch, thermal overloads, inertia brake contact, etc.).

PLC INPUTS (X0-X7)		
INPUTS ("IN" LED'S)	**Terminal #**	**DESCRIPTION**
0	XL0	**Encoder Position Signal – Channel A.** Flickers when doors runs.
1	XL1	**Encoder Position Signal – Channel B.** Flickers when doors runs.
2	XL2	**Shutdown Devices.** Should be lit unless a shutdown device (E-Stop, Crank Switch, ect) or **SRD** is activated
3	XL3	**SRDS Proximity.** Should be lit unless bottom beam is hit out.
3-7		**Setup**. ALL Should be lit unless the setup button has been tripped.
4	XA1	**Actuator Impulse Open**. Will come on for as long as the actuator has been activated. If on continuously, check actuators.
5	XP1, XP2, XP3	**Safety Devices**. Photocell, CSE and Reversing edge contacts are wired in series with this input. Should be on unless a safety device is activated. (N/C)
6	XL4	**Open Reference Prox.** Should be on unless door is near open position.
7	XA2	**Reset Button**. Will Reset the door when activated.


SEE POWER DRAWING FOR POWER CONNECTIONS
ALLSTAR FREQUENCY INVERTER CONTROL INPUTS
BRAKE CONTROL
AUTO AIRLOCK CYCLE ACTIVATION OUT
COUNTER
PULSE ENCODER
PLC
SEE ANDX2
FIELD IMPULSE OPEN
PANEL IMPULSE OPEN
ELECTRIC EDGE/CSE
REVERSING PHOTOCELL
INTERLOCK SIGNALS FROM OTHER DOORS
RESET BUTTON
SETUP/ JOG MODE
SETUP MODE INDICATOR ON RESET BUTTON
NOTES: (1)ALL INPUTS ARE 24VDC
SYMBOLS:
= CONTROL PANEL WIRING
= FIELD DEVICE WIRING
= TERMINAL JUMPER
PROGRAM# AE3KDX
DOOR #
DESCRIPTION
DOOR CONTROL ALLSTAR FULL OPTIONS, 3000
DRAWING NAME
AE3KDX
DRAWING NUMBER
980074-4094
BY
RMR
DRAWING TYPE
LOGIC
DATE
2004/05/27
REV
DESCRIPTION/ PREVIOUS INFORMATION
DATE
INITIAL


PLC
OPEN REFERENCE
10PROX
FIELD OPEN
13-PB1
JUMPER19
PANEL OPEN, FULL HEIGHT
13-PB2
FIELD CLOSE
14-PB1
PANEL CLOSE
14-PB2
CLOSE TIME
JUMPER20
JUMP FOR NON-AUTO
OPEN MID HEIGHT OPTION
15-PB
REVERSING PHOTOCELL PC13
REVERSING PHOTOCELL PC14
JUMPER23
JUMPER24
EXTRA REVERSING PHOTOCELLS NOT BYPASSED BY CLOSE BYPASS
0VDC
13-CR
14-CR
15-CR
LIGHT / HORN CONTROL
TRAFFIC LIGHT CONTROL
AIR CURTAIN/INTERLOCK CONTROL
POSITION INDICATION COMMON
OPEN POSITION INDICATION
CLOSED POSITION INDICATION
DOOR #
DESCRIPTION
DOOR CONTROL
ALLSTAR FULL OPTIONS
BY
RMR
DRAWING TYPE
LOGIC
DRAWING NAME
ANDX2
DRAWING NUMBER
980074-4035
DATE
2000/12/15
REV
DESCRIPTION/ PREVIOUS INFORMATION
DATE
INITIAL

TROUBLESHOOTING GUIDE For program AE35DX

WARNING:ALL ELECTRICAL TROUBLESHOOTING OR SERVICE MUST BE PERFORMED BY A QUALIFIED ELECTRICIAN OR SERVICE PERSON AND MUST MEET ALL APPLICABLE LOCAL, STATE, FEDERAL, AND OTHER GOVERNING AGENCY CODES. EXERCISE EXTREME CAUTION WHEN IT IS NECESSARY TO SERVICE THE CONTROL PANEL WHILE IT IS ENERGIZED.

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PLC INPUTS (X0-X17)		
INPUTS **("IN" LED'S)**	**Terminal #**	**DESCRIPTION**
0	XL0	**Encoder Position Signal – Channel A.** Flickers when doors runs.
1	XL1	**Encoder Position Signal – Channel B.** Flickers when doors runs.
2	XL2	**Shutdown Devices.** Should be lit unless a shutdown device (E-Stop, Crank Switch, ect.) or **SRD** is activated
3	XL3	**SRDS Proximity.** Should be lit unless bottom beam is hit out.
3 THRU 17		**Setup**. Should be lit unless the setup button has been tripped.
4	XA1	**Impulse Open**. Will come lit for as long as the actuator has been activated. If on continuously, check actuators.
5	XP1, XP2, XP3	**Safety Devices**. Photocell, CSE and Reversing edge contacts are wired in series with this input. Should be lit unless a safety device is activated. (N/C)
6	XQ1, XQ2	**Interlock.** Needs be lit to enable door operation, or jumped out if no interlock is being using.
7	XA2	**Reset Button**. Will Reset the door when activated.
10	XL4	**Open Reference Proximity.** Should be on unless door is near open position.
11	XA3	**Actuator Full Height Open**. Will come lit for as long as the actuator has been activated. If on continuously, check actuators.
12	XA4	**Actuator Close**. Will come on for as long as the actuator has been activated. If on continuously, check actuators.
13	XA5	**Auto/Manual**. Jump for non-auto. (Will be lit when in Manual mode)
14	XA6	**Actuator Mid Height Open**. Will become lit for as long as the actuator has been activated. If on continuously, check actuators.
17	XP4, XP5	**Extra Reversing Photocells**. Will be lit (N/C). If no photocells are being used, should be jumped out for normal door operation.

DOCUMENT TITLE	Allstar with Encoder Control Panel Manual		
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DOOR MODEL(S)		ELECTRONIC FILE	Allstar with Encoder.DOC
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ORIGINATOR	Rick Walton / Robert Rundle Revision by Davey Riley	MANAGER APPROVAL/DATE	